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SOURCE

Promyshlennost' Stroitel'nykh Materialov

INFORMATION ON THE USEFUL LIFE OF SOVIET CEMENT KILN REFRACTORIES

Comment: This report gives information on the planned, average, and maximum useful life (days of service before repairs become necessary) of refractories (lining) in rotary cement kilns. An appended table gives the life span of the refractories in certain plants as of 15 November 1953.

Numbers in parentheses refer to appended sources. 7

The Soviet cement industry is being equipped with more 150-meter rotary kilns each year. The useful life of the refractory depends largely on the

In some of the plants the planned useful life of the refractory has been exceeded considerably. Some of the more progressive plants have shown that this period of service can be extended even more. In the Nikolayev plant, the refractory averaged 105 full working days as of 15 November 1953. The Belgorod plant achieved similar results in one of its kilns and is now endeavoring to extend the life of the refractory to 200 days.(1)

The Vol'sk "Krasnyy Oktyabr'" Plant, by water-cooling the kilns, exceeded the planned service period of the refractory. The Shchurovo plant, which burns less fusible raw materials than do the other plants, also has made great strides. In the Vol'sk "Kommunar" Plant the useful life of the made great strides. In the vol'sk kommunar riant the useful life of the refractory was extended to 600 days as of 15 November 1953. In the Vol'sk "Bol'shevik" Plant the refractory in one large rotary kiln is in service 160-200 days a year, but in other kilns of the same size it has a useful life of only 50-90 days. In this plant's small kilns the refractory life

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Meanwhile, in other cement plants the actual or average useful life of the refractory is far below the planned period of service.

In the Bryansk plant water leaks into the kiln, the supporting mechanisms and devices stop, and the raw material is inconsistent, thus making it necessary to repair the kilns frequently.(1) The refractory in the Krichevo plant has the shortest useful life in the USSR cement industry, and this is one of for some time.(2) The useful life of the refractory in the Pikalevo plant is also extremely short. In the Volkovysk plant the average in 1953 dropped albeen lagging because of the short useful life of its refractory. Frequently the refractory in the kiln lasts no longer than 7 days.(3)

In the Voskresensk plant the kilns are frequently idle because of interruptions in feeding fuel into the kilns and because of the poor quality of the raw material.(2)

/The following table gives the useful life of chrome-magnesite refractories for 17 plants. Plants marked with an asterisk were listed in the source as having 150-meter rotary kilns. The kilns of the other plants are assumed to

Useful Life as of 15 Nov 1953

<u>Plant</u> Nikolayev* (1)	Planned	Actual, Average	Maximum
Belgorod* (1)	85	108	108
	85	70	105
Karadag* (1)	85	57	103
Magnitogorsk* (1)	85	35	58
Bryansk* (1)	85	34	58
Novorossiysk "Oktyabr'"* (1)	85	34	54
Vol'sk "Krasnyy Oktyabr'"(2)	130	168	
Shchurovo (2)	110		230
Vol'sk "Bol'shevik"(2)		156	188
Voskresensk (2)	130	96	235
Krichevo (2)	90	49	118
Vol'sk "Kommunar" (3)	85	44	119
Sukholozh (3)	270	582	606
Amvrosiyevka (3)	120	237	363
Pikalevo (3)	85	179	179
Sengilev (3)	85	35	65
Volkovysk (3)	70	31.	49
	, 100	67	145

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	SOURCES	
	 Moscow, Promyshlennost' Stroitel'nykh Materialov, 21 Nov 53 	
	2. Ibid., 25 Nov 53	
	3. Ibid., 13 Nov 53	
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